Ref # 17

EXHIBIT A

JOHN SEXTON CONTRACTORS COMPANY
900 JORIE BOULEVARD
OAK BROOK ILLINOIS 60521

TEL. 312/654-1200

May 22, 1975

Mr. Charles Clark
State Environmental Protection Agency
Land Pollution Control Permits
2200 Churchill Rd.
Springfield, Ill. 62706

Dear Mr. Clark:

Enclosed are two copies of the sanitary landfill permit application for our proposed Project I-57. Under separate cover we are sending two complete sets of plans.

We will provide additional detail, amplification or clarification as you may require to complete your review. If you have any questions, please do not hesitate to call.

Yours very truly,

JOHN SEXTON CONTRACTORS CO.

Arthur A. Daniels

Arthur A. Daniels

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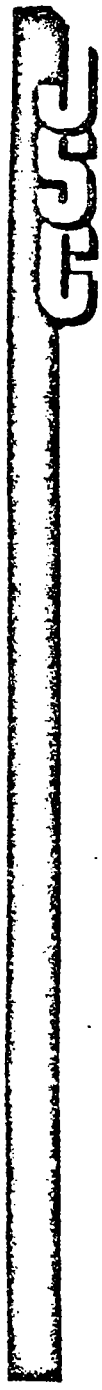
encls.



PROJECT I-57

JOHN SEXTON CONTRACTORS

OAK BROOK, ILLINOIS 60521

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

2200 Churchill Road, Springfield, Illinois 62706 217/525-3334

APPLICATION FOR PERMIT TO DEVELOP AND/OR OPERATE A SOLID WASTE MANAGEMENT SITE

In Accordance With The Environmental Protection Act

ll information submitted as part of the Application is available to the public except hen specifically designated by the Applicant to be treated confidentially as regarding trade secret or secret process in accordance with Section 7(a) of the Environmental rotection Act.

APPLICATION MUST BE SUBMITTED IN DUPLICATE

DO NOT WRITE IN THIS SPACE - FOR E.P.A. USE ONLY

_____ COUNTY - Land Pollution Control

_____ / _____ Region ____

Application Received: _____ Pre-operation Insp. _____

Reviewed by: Geol. ( ) Eng. ( ) Other ( ) By: _____

Preliminary Site Review: _____ Operating Permit: Granted _____

Application Filed: _____ _____ Denied _____

_____ _____ _____

Comprehensive Review Initiated: _____ _____

Development Permit: Granted _____ Denied _____ _____

_____ _____ _____ Permit No. _____

PART I - APPLICANT INFORMATION

A. SITE IDENTIFICATION

1. Name of Applicant John Sexton Contractors Co.
(Person responsible for operation)

2. Address of Applicant 900 Jorie Boulevard
(Street, P. O. Box, or R. R. #)

Oak Brook, Illinois 60521
City State Zip Code

Telephone: 312 654-1280
(Area Code) (Number)

Name of Land Owner (Title Holder) Trust No. 21247
(If same as above, so indicate)
The Cosmopolitan National Bank of Chicago
Address of Land Owner 801 North Clark
(Street, P. O. Box, or R. R. #)
Chicago, Illinois 60610
City State Zip Code

5. Name of Site Project I - 57

6. Address of Site Sauk Trail @ Central Avenue
(Street, P. O. Box, or R. R. #)
Near Matteson, Illinois
City State Zip Code

Cook County Rich Township

7. Land ownership (Check Applicable Boxes)

( ) Presently Owned by Applicant (X) To Be Leased by Applicant For the life of landfill ~~For ----- Years~~
( ) To Be Purchased by Applicant ( ) _____ Years of Lease Remaining: termination date of lease _____

Operated by: Ill. Corporation ( ) Parternership (X) Government ( )
Individual ( ) Other ( )

SITE BACKGROUND (Check Applicable Box or Boxes)

8. ( ) This is an existing operation begun _____(mo.) _____(yr.).
(X) This is a proposed operation.
( ) This is a proposed extension of an existing adjacent operation:
Illinois E.P.A. Permit No._____: No Illinois E.P.A. Permit ( ).

PART II - LOCATION INFORMATION

ZONING AND LOCAL REQUIREMENTS

9. Present zoning classification of site R -3.

10. Does present zoning of site allow the proposed usage? (X)Yes ( )No.
As special use

11. Restrictions (if any) None

12. Check applicable boxes which describe the use of adjacent properties surrounding site.

	Residential	Commercial	Industrial	Agricultural	Others*
a. North	( )	( )	( )	( )	(X)
b. East	( )	( )	( )	( )	(X)
c. South	( )	( )	( )	( )	(X)
d. West	( )	( )	( )	( )	(X)

*SPECIFY USE CLASSIFICATION North - Railroad; East - Interstate I -57;
South - Sauk Trail; West - Central Road

See Sheet No. 2 of plans for identification of adjacent areas.

13. a. Are there any permits, operational requirements, licenses, or other requirements or restrictions by any municipality, planning commission, county, county health department, state agency, or other governing body? ( ) Yes (X) No If yes, list below. _____

_____

_____

b. Have these requirements, licenses or restrictions been approved by the agency or governing body having jurisdiction? ( )Yes ( )No

c. If the answer to (b) is yes, include photocopies of supporting documents.

LOCATION

14. Attach a copy of the United States Geologic Survey (U.S.G.S.) topographic quadrangle map of the area which contains the site. (7.5 minute quadrangle, if published). Steger, Illinois 1953 Rev. 1973

Quadrangle Map Provided: Frankfort, Illinois (Name) 1953 Rev. 1973 (Date)

15. a. Outline on the U.S.G.S. topographic quadrangle map the location and extent of the site. (2 maps required)

b. Provide a legal description of the site. (Typewritten on attached sheet.)

84.90± acres in the west ½ of the Quarter, _____ Quarter, S.W. Quarter

of Section 28, Township 35N, Range 13E 3rd P.M.

c. Provide State Plane coordinates of the southwest corner of the site, using the State Plane Coordinate System:

659,350 feet east, 175,520 feet north or origin, (X) east zone ( ) west zone

16. General characteristic: (Flood Plain, Hillside, Field, Strip Mine, Quarry, Gully, Gravel Pit, Swamp, etc.)
Briefly describe: Field with slight slope and borrow pit for construction I-57

_____

17. Plot the following information on the U.S.G.S. quadrangle topographic map, if within the site or adjacent to the outer perimeter of facility:

a. Wells (domestic, industrial, etc.)
b. Public water sources (wells, stream, etc.)
c. Residences or residential areas, commercial facilities, sewage treatment facilities, industries, institutions, etc.
d. Other pertinent facilities not shown on topographic map such as diverted streams, strip mines, ponds, etc.

If scale of quadrangle map is not sufficient, show the above items on a separate topographic map (See Part IV - A - 23).

PART III - SITE CHARACTERISTICS

A. GEOLOGY - HYDROLOGY

NOTE: The instructions for this Part of the Application should be read carefully prior to initiating the data-gathering program for the site.

Provide subsurface information in comprehensive detail, sufficient to allow thorough evaluation of the hydrologic and geologic conditions beneath and surrounding the site. This data must fully describe the hydrogeologic interrelationships of the landfill facility, local ground waters, and surface waters. All information requested in sections 18 through 22 should be integrated and presented as a detailed hydrogeologic report.

B. GEOLOGY

GENERAL GEOLOGIC SETTING See page 2 of Exhibit "A"

18. Provide a brief description of the general geography of the region in which the site is located, and a summary of the hydrogeologic conditions typical of that portion of Illinois.

TYPE AND EXTENT OF SUBSURFACE MATERIALS See page 2 of Exhibit "A"

19. Provide a complete log (description) of each boring made during the exploratory program, and include all other pertinent data so obtained.

20. Include the following information regarding the bedrock, if encountered during the boring program:

    a. Depth(s) to bedrock.
    b. Lithology (physical character) and hydrologic characteristics of the bedrock formation.
    c. Name and age of the formations encountered during the boring operation and (or) which crop out on or adjacent to the site.

C. MATERIALS CLASSIFICATION AND ANALYSIS

21. Provide the following information for samples taken during the boring operation:

    a. textural classification (U.S.D.A. system)
    b. particle size distribution curves for representative samples
    c. coefficient of permeability - based on field and (or) laboratory determinations
    d. ion-exchange capacity and ability to adsorb and "fix" heavy metal ions

D. HYDROLOGY See page 3 of Exhibit "A"

22. Provide the following information regarding the hydrologic flow system in the area of the site:

    a. Depth to water in boreholes at time of boring completion and periodic measurements until the water level has stabilized.

b. Rate(s) and direction(s) of ground-water movement.
c. A narrative description (with diagrams) of the design and installation procedures for all piezometers installed at the site. This shall include both water-level measuring piezometers and those installed for permanent use as water-quality monitoring points.
d. An analysis of the background ground-water quality, as per those constituents listed in the Instructions. Attach a copy of the laboratory report.
e. An outline of the procedures, devices, and personnel to be employed for the collection of periodic ground-water samples from the monitoring point(s) installed at the site.

ART IV - CONSTRUCTION PLANS AND SPECIFICATIONS

A. SITE DEVELOPMENT PLAN

23. Provide a detailed topographic map of the existing site (Scale 1" = 200' or larger) showing 5-foot contour intervals on sites (or portions thereof) where the relief exceeds 20 feet, and 2-foot contour intervals on sites (or portions thereof) having less than 20 feet of relief. This map should show all buildings, ponds, streams, wooded areas, bedrock outcrops, underground and overhead utilities, roads, fences, culverts, drainage ditches, drain tiles, easements, streets, any other item of significance, including legal boundaries.

    Show the location and elevation of borings as described in Part III - 19, 20.

24. Provide a separate map, at the same scale as that above, of the developed site showing the following:

    a. All changes in topography dictated by design and operational factors.
    b. All surface features (as specified in IV - A - 23) both unaltered and modified, and installed as part of the facility. This shall include all new construction with location plans for berms, dikes, dams, earth barriers, surface drainage ditches, drainage devices (culverts, tiles), fencing, access roads, entrance(s), utilities, buildings, sanitary facilities, monitoring well(s), streams, ponds, mines, and any other special construction as may be required to comply with the provisions of the Rules and Regulations.

25. Provide a topographic map of the closed and covered site showing final contours, with an interval of 5 feet if relief is greater than 20 feet, and intervals of 2 feet if relief is less than 20 feet.

26. Provide cross sections or profiles (Scale 1" = 200' or larger) of the developed site to clearly indicate: (Minimum of three cross sections recommended)

    a. Proposed fill areas
    b. Sequence of placement and total compacted thickness of each lift
    c. Thickness of cover material for each lift
    d. Slope and width of working face for each lift
    e. Slope of completed fill with final cover in place
    f. Subsurface strata to a minimum depth of thirty feet below the base of the fill material
    g. Earth barriers, berms, dikes and other barriers, including essential dimensions of each

27. Provide plan views (Scale 1" = 200') and cross sections of the leachate collection and treatment system, if utilized, including the following information:

a. Type, location and construction of subsurface collection system, and all attendant devices.
b. Location, dimensions, volume, and surface elevation of treatment lagoon(s), if used.
c. Detailed written narrative of the method and processes of the treatment system, and program for monitoring the performance and effectiveness of the treatment system.
d. Discharge point(s) of effluent.

B. SCHEDULE OF CONSTRUCTION

28. Attach a typewritten narrative supplemented by indications on the plans of the sequence of areas to be filled. Estimate the date of beginning and ending of each phase of construction and operation.

C. CONSTRUCTION REQUIREMENTS

29. Attach a typewritten narrative supplemented by indications on the plans of provisions to be made for:

a. Prevention of surface-water pollution.

b. Control of gas migration.

c. Elimination of flood hazard, if any.

d. Employee facilities.

e. Access to the site.

f. Measuring quantity of solid waste delivered to the site.

PART V - OPERATING PLAN

A. SOURCE AND VOLUME

30. Indicate the estimated quantity of each of the following sources and types of solid waste the facility will handle during each day of operation; each week of operation; each year of operation. Specify any additional information regarding refuse source and quantity.

SOURCE	TYPE	DAILY QUAN.	WEEKLY QUAN.	ANNUAL QUAN.
Residential		400 cu. yd.	2200 cu. yd.	114,400 cu.yd.
Commercial		300 cu. yd.	1650 cu. yd.	85,800 cu.yd.
Industrial		300 cu. yd.	1650 cu. yd.	85,800 cu.yd.
Agricultural				
Other (Describe)				

31. At the above projected rate of use, what is the expected useful life of the facility? As required years
to meet final contours as planned See sheet no. 5

32. Will water treatment or wastewater treatment sludge be accepted at the facility? ( )Yes (X)No. If the answer is yes, all pertinent information requested in Part VI of the Application form must be provided.

33. If "hazardous wastes" (other than waste water sludges) will be accepted at the facility, list these wastes, give quantity to be accepted, provide a complete analysis of each, and attach a detailed description of the special procedures to be used for their disposal at the facility.

DESCRIPTION OF OPERATING PROCEDURES

34. Attach a typewritten plan of operation to accompany this application. This plan should include the following subjects:

a. Method of landfill (trenching, area fill)
b. Time schedule for filling and daily covering

OPERATING REQUIREMENTS

35. Attach a typewritten description of provisions for:

a. Personnel for supervision and operation
b. Traffic control
c. Designation of unloading area
d. Cell size and construction
e. Provisions for blowing litter control
f. Rodent control
g. Fly control
h. Bird control
i. Dust control
j. Odor control
k. Management of surface water
l. Erosion control
m. Final cover and final slopes
n. Monitoring program for gas
o. Reuse and recycling operations
p. Monitoring program for ground water (See Part III - D - 22)

36. Provide a list of equipment to be used for the landfill operation:

ITEM(S)	MODEL NUMBER	NO. OF UNITS IN OPERATION	DESCRIPTION
		SEE PAGE 13	

PART VI - ON - SITE SLUDGE DISPOSAL

The information requested in this Part of the Application form must be provided ıly if water treatment or wastewater treatment sludge is proposed to be accepted for .sposal at the site. Not Applicable

37. Indicate the type of sludge to be accepted at the facility for ultimate disposal:

( ) Water treatment
( ) Wastewater treatment

( ) municipal	( ) filter cake	( ) raw
( ) industrial	( ) sludge cake	( ) digested
( ) combined	( ) heat-dried	

38. Provide a brief narrative of the wastewater or water treatment processes and operations utilized at the treatment facility generating the sludge in question.

39. Provide a brief narrative of the sludge de-watering and (or) sludge drying operations utilized at the treatment plant. What is the expected solids content (by weight) of the processed sludge? _____

40. If industrial or combined wastewater sludges are proposed to be deposited at the site, provide a comprehensive chemical analysis of same. Attach a copy of the laboratory report as part of the Application. Provide a brief description of the manufacturing process(es) which results in the generation of the industrial wastewater including chemical reagents used during such processing.

41. Provide a reasonable estimate of the projected quantity of processed sludge to be deposited at the site on a unit time basis. Specify any additional information regarding sludge generation.

SOURCE	WEEKLY QUANTITY	MONTHLY QUANTITY	ANNUAL QUANTITY	OTHER INTERVAL
Municipal				INTERVAL
Industrial				
Combined				

42. Provide a brief statement describing the method of sludge conveyance to the refuse disposal site from the treatment facility. Include an attached typewritten list of equipment and personnel to be used for sludge handling and transport.

43. Outline in a concise statement the operational procedures to be used on-site to properly dispose of the sludge at the operational protion of the facility. Describe the provisions to be-made for odor control if nuisance conditions arise from the disposal of partially digested sludges.

44. Attach a typewritten description supplemented by indications on the plans of provisions for final grading and, if applicable, revegetation of the completed landfill areas. State what arrangements will be made for the repair of eroded, cracked and uneven areas, and any other maintenance of the site until its pollution potential is adjudged exhausted.

45. By signature affixed to this Application for Permit the Applicant affirms his intent to record description and plan of the completed site with the county official responsible for maintaining titles and records of the land, in accordance with the Rules and Regulations of this Agency, if granted a Development and/or Operating Permit.

I hereby affirm that all information contained in this Application is true and accurate to the best of my knowledge and belief.

Signature of Applicant: E.G. Sexton, Partner — Date: 5-20-75

Attest: Frank Slykas — Date: 5-20-75

Signature of Engineer: Richard W. Eldredge, P.E. — Date: 5/20/75

Illinois Reg. No.: 18996

Attest: Frank Slykas — Date: 5-20-75

(Seal)

Signature of other person, technical and non-technical, who has supplied data contained in the submittal.

Signature Raymond J. Flood, P.E. — Date: 5/21/75

21775
Reg. No., Position, Title, Etc.

(Seal)

Signature — Date

Reg. No., Position, Title, etc.

(Seal)

SUPPORTING DOCUMENTATION

FOR

PROJECT I-57

SANITARY LANDFILL PERMIT APPLICATION

JOHN SEXTON CONTRACTORS CO.

900 JORIE BOULEVARD

OAK BROOK, ILLINOIS 60521

PART III

B. Geology

18. A brief description of the general geography and hydrogeologic conditions of the area is included in Exhibit "A" and "B", The Walter H. Flood and Co., Inc. site investigation.

19. Logs of ten borings are included as Exhibit "A" and "B". These borings were accomplished by Walter H. Flood and Co., Inc. during the fall of 1974 and reported September 25, 1974 and December 3, 1974, respectively.

C. Materials Classification and Analysis

21. Textural classification, representative size distribution curves, permeability coefficients and ion-exchange capacity can be found in Exhibit "A".

D. 22. All information regarding the hydrologic flow syste· is included in Exhibit "A" and "B". Because of the permeability characteristics of this site (3.2 and 7.7 x 10^{-7} cm/sec) water flow is not of consequence.

Observation wells are planned for each corner of the site.

We intend to provide quarterly analysis of the chemical constituents of water from observation wells as per the state requirements.

PART IV

B. 28 Schedule of Construction

The trenches shown on the plans are general only and may be reoriented during the actual construction.

The site requires excavation to provide sufficient cover material (estimated to be 25% of the "air space" identified).. Each trench will be excavated, utilizing that material for daily and final cover for the preceeding trench.

Each days refuse will be totally enclosed in a cell except where delivery of refuse will be interrupted for less than 4 hours in each 24 hours, at which instance all surfaces except a limited working face will be covered.

29. Construction Requirements

Drainage ways will be constructed along the East and North property lines to direct surface drainage. The drainage way at the Northeast corner will be maintained. Drainage along Central Road to the South will flow into the existing storm water drains.

The site operations requires daily coverage with the almost impermeable on-site clay. Waters accumulating in the low portions of trenches will be pumped to the surface drainage system. We have encountered no difficulty in safeguarding surface waters in this manner at other sites in our control.

Gas migration will be controlled naturally by the impermeable clay which will not allow its passage. In areas where granular material intersects the fill excavation, four feet or more of clay will be recompacted to provide a barrier against the lateral transmission of both gas and liquid.

There are no known flood hazards on this site. The perimeter drainage ways will receive little increase in water volume due to the contemplated final contours.

Employees will be provided with sanitary facilities, in the operations building. The building will be one story frame. Part of the building may be utilized as a maintenance garage for site equipment. A telephone will be provided for communication.

Access to the site will be limited by fences and an entrance gate (locked when not open for business). Special enclosures and security measures will be provided where necessary to protect equipment from vandalism and/or theft.

Wastes will be measured by volume as delivered or by weight if originating from a transfer station. Each truck using the site will be measured for volumetric capacity upon arrival at the site unless previously measured and recorded. Where partial loads are delivered, an estimate of the fractional portion may be made by the ticket writer if weighing has not been utilized. Each load will be recorded for billing purposes as the volume or weight of each load determines the customer charge.

PART V - OPERATING PLAN

B. 34a. Description of Landfilling

Landfilling at the site known as Project I-57 will be accomplished as follows: excavation of major trenches, to the limits shown on the plans precedes the placement of refuse. Excavated earth not immediately used for cover will be placed at the higher levels for future construction. Trenches are designed to be 225' in width, approximately twice the required operating face. Each half of the face will be advanced independently as generated quantities require. Trench lengths are as shown on the plans, generally 2,000' or less in length. Each trench is created by excavating cover material for the preceeding trench.

Haulers will be directed to the fill face by signs, markers and employee instructions. In order to provide good on-site hauling conditions, roads will be constantly maintained utilizing rubble, gravel, brick bats, oil and asphalt.

Vehicles will unload refuse at the toe of the fill face as directed by the "spotter". Upon nearing the completion of a trench or as a result of inclement weather conditions and/or new road construction, refuse may be placed at the top of the slope. After the refuse is deposited the dozers, working the fill face, will spread it over the face in even layers of 1½' to 2½' in thickness. Additional passes by dozers and/or compactors will complete the compaction process. Compaction operations proceed up and

against the slope except where extenuating circumstances require alternative methods.

Fill face slopes will be maintained at reasonable angles to provide easy operation of equipment and adequate compaction of the waste.

Cars, pick-up trucks, and trailers will be instructed to deposit refuse in a detachable container near the site gate, thus reducing congestion at the fill face. The container will be emptied into the fill each day or more often as indicated by the availability of usable volume. This routine should assure us that few drivers unfamiliar with our landfill operations will be near the fill face and the heavy traffic of vehicles and equipment.

Cover materials will be moved from stock areas to a point near the working face as each day's operation progresses. Cells will be covered as they progress, allowing the final daily closure to be accomplished with a minimum of effort in a reasonable short time. Six inches or more of compacted earth cover will be applied at the close of each day's operations.

Some areas of the site will always be in the process of preparation for wet weather operations. We will use non-putrescible materials such as brick bats, rubble, wooden pallets and well burned incinerator residue for this purpose. These materials will be deposited on the undisturbed earth or earth cover of the previously constructed cell, repeated passes of a dozer or compactor will shred the materials, spread the materials and provide additional

compaction and consolidation of the previously applied cover. The non-putrescibles will not be spread in lieu of cover, but rather as an addition to cover, therefore the control of vectors, fire, and infiltration will be continuously maintained.

B. 34b. Hours of Operation

The Project I-57 site will be open to receive waste between the hours of 6:30 a.m. and 4:00 p.m. weekdays. Saturdays 6:30 a.m. to 2:00 p.m. (NOT IMMEDIATELY) Closed on Sundays and Holidays. The site may be open for transfer vehicles at other times depending upon traffic conditions and waste volumes.

The operating personnel will be on-site until 5:00 p.m. or later depending upon the time required to provide the required daily cover.

Compaction of the waste will be accomplished as the waste is placed. Cover will be stockpiled nearby for daily closing. The placement of daily cover will begin shortly after 2:00 p.m. We plan to have approximately one-half of the working face closed by the time that gates are closed and all haulers have completed their dumping.

B. 35a. Personnel

Site Supervisor - The site supervisor will be responsible for the day to day operation of the site. He will be responsible charge of all equipment and manpower, directing its use in conformance with these plans and good operating practice.

Ticket Writer - The ticket writer will maintain a log of all waste received. Included in the log will be notations of gen-

eral weather conditions and any exceptional occurances such as accidents, injuries, fires, receipts of unusual materials, and rejection of materials for any reason whatever.

Equipment Operators - The equipment operators will be responsible for the maintenance of their equipment and its operation under the supervision of the site supervisor. The Sexton Company utilizes dozers, loaders, compactors, earth movers or scoops, draglines, sweepers and other miscellaneous power equipment. Operators will be assigned and utilized according to their individual capabilities and the company's needs.

Laborers - The laborers will be employed as "spotters" and for litter control as well as many areas of related effort. A spotter will direct the traffic at the face of the fill, position the dumping trucks and otherwise keep the flow of traffic moving safely and expeditiously. Laborers will supplement the mechanical devices and operating procedures in the control of litter. Picking of litter will be routinely performed depending upon wind and weather.

Additional Personnel - Additional personnel will be employed at this site as may be required by weather conditions and incoming waste quantities, etc.

B. 35b. Traffic Control

Those portions of the on-site roads that will be utilized for a considerable length of time will be clearly marked and carefully maintained. Markings may include directional signs, barricades, barrels, drums of concrete blocks. Similar markings may be provided for those routes which are changed frequently; the markings will be supplemented by verbal instructions from ticket writers and spotters as required.

Drivers will be constantly advised to use care in the fill areas. Reduced speeds will be enforced vigorously.

The spotter will be in complete charge of the traffic flow at the fill face. Sexton will use as many spotters as are necessary to assure coordination of movement between the haulers and the operating equipment. Safety is our first concern and that of the spotters as they direct the unloading procedure.

B. 35c. Unloading Area

All materials for disposal received at the site will be immediately incorporated into the fill face. Exceptions to this statement are those materials which can be utilized in the preparation of wet area operations, "hot" loads, or loads which the ticket writer or the supervisor indicated should be dumped elsewhere on site as a precaution against incorporating problem materials into the daily cell. This latter condition may occur when unidentified wastes from problem sources are reported or suspicioned. Unsatisfactory materials discovered in this manner will be reloaded and removed at the haulers expense.

d. Cell Construction

Each day's refuse is incorporated into one or more cells with compacted earth separations of 6" or more. A typical cell at the Project I-57 site would have the following dimensions: width 100 to 120 feet, depth 10 feet and a length of 25 feet representing approximately 1,000 cubic yards more or less in place. These dimensions are subject to variation in consideration of the area being filled and the volume received.

Compaction of wastes within each cell will be obtained by utilizing the available equipment. Compaction will usually be accomplished in up-slope passes to obtain best densities at least cost.

In some locations and under some weather conditions up-slope operations may be modified to provide the greatest density possible at that location under the prevailing conditions. Modification of up-slope operation would include, but will not be limited to, cross-face compaction after up or down face spreading, down face spreading, down-face compaction after up or down spreading, diagonal passes for both spreading and compaction.

All refuse will receive from 3 to 5 passes from the equipment working that area of the face in order to provide the required densities both for stability and the conservation of earth cover.

e. Litter Control

Project I-57 litter control will consist of earth berms, portable fences and the natural protection provided by the site. Litter traps may be strategically placed along property lines fences to reduce the required time and effort to collect and dispose of litter which escapes from the provided litter control installations.

f. Rodent Control

All sites owned and operated by the Sexton Companies are routinely inspected for rodents and monthly reports are provided. The exterminator retained by Sexton maintains a preventative baiting program using Warfarin in protected bait stations near buildings, road building materials, stock piles and other potential rodent harborages.

g. Insect Control

All Sexton sites are routinely visited by a licensed exterminator. Should insects become a problem immediate assistance is available. Systematic application of insecticide has not been required on any of our sites to date.

h. Bird Control

The control of birds has not been a problem at the Sexton landfill sites; however, a licensed exterminator is on call to provide such assistance as may be deemed advisable.

i. Dust Control

Dust control will be maintained by requiring reduced vehicle speeds and applying dust pallatives as required. The site will be equipped with a water truck capable of spraying access roads to reduce dust and thus provide temporary releif. Oil and Calcium Chloride may be used to provide more permanent dust control. The approach from the public thoroughfare and the area adjacent to the control building will be paved to reduce the dusting and mud tracking that might otherwise impede the landfill's operation or the public's passage.

j. Odor Control

The only effective means of odor control within a landfill site is a combination of good operation and good "housekeeping". To that end Sexton is continuously concerned with the provision of equipment and techniques representing the best in current operating procedures. Upon odor detection and a subsequent determination of source and cause, corrective measures will be applied as may be determined.

k. Management of Surface Waters

Established site drainage is to the Northeast corner of the site for almost all of the North 40 acres with the remainder draining to the drainage structure located in the Southwest corner of the site. (Northeast corner of the intersection Sauk Trail with Central Road) Surface waters will be drained in a similar manner after site completion. The on site vegetation, slopes and ledges will adequately control run off rates to near pre-construction limits.

All filled surfaces will be graded to drain towards the established drainageways. Areas will be routinely reviewed after completion so that differential settlement, cracks, fissures or erosion can be corrected. Surface ponding may be allowed on natural earth areas prior to filling. Ponding will be minimized as such waters become attractive nuisances and/or sources of insects if not carefully supervised.

1. Erosion Control

With few exceptions, all slopes will be constructed to a maximum of four feet horizontal to each vertical foot (4:1). Where long slopes occur drainage swales are placed at intermediate locations to decrease erosion from overland flow as shown on the plan. Drainage swales will be augmented where necessary with culverts, rip rap and other erosion control and/or water diversion devices.

Slight differential settlement, cracking and ponding will be corrected by adding cover material and regrading. Major settlement, cracking and ponding will be corrected through additions of new refuse cells and applicable cover.

Stabilized fills will be seeded with suitable ground cover to preserve the finished surface with a minimum of erosion from wind and water.

Slopes typically will be seeded with the materials which can be successfully grown considering the degree of slope, time of year and the proposed area use, if any. Winter wheat, crown vetch and special mixtures such as 33% Rye, 33% Kentucky 31, 34% creeping red fesque are examples of cover materials which have been used. (Each seeding is separately considered and seed is specifically selected on the basis of location, season and prevailing conditions.)

m. Completion of Fill Areas

Upon completion, all filled areas of Project I-57 will be covered with a minimum of 2 feet of soil. The Sexton Company will final grade and plant a cover crop on the surface of the completed fill for the purpose of preventing erosion and thus maintaining cover integrity pending the final shaping and use as per concept development plans, current revision.

n. Gas Monitoring

The Sexton Company routinely monitors for the migration of gas utilizing an explosimeter as a field checking device. An iron bar or pipe is driven one foot or more into the earth, the probe is quickly inserted and the opening sealed. Sampling may also accomplish in near-by valve vaults, manholes and enclosed areas of building foundations where access is readily available. The sniffing device samples the sub surface gases for explosive content. This device is not precise in its evaluation but is of sufficient accuracy to indicate the need for further investigation. Gas monitor reports will be included on the activity log maintained at the site.

Preventative steps will be immediately employed should the migration of gas become detectable and of correctable significance.

The typical gas monitoring program includes site surveys as requested by the site supervisor in response to an indicated need, and at such other times as weather conditions may be conducive to gas migration.

o. Resource Recovery

The Sexton practice is to restrict all activity at the working face to that associated with the prompt incorporation of waste into the fill. For the foregoing reason all resource recovery, salvage or reuse projects, when employed, are condicted at a specific, separated location. To allow for the movement of disposal site traffic such activities as sorting, separation, temporary stock-piling, baling and milling not associated directly with the successful accomplishment of the fill, will be placed more than 300' from the working landfill face.

36. The following is a list of equipment basic to the operation of Project I-57. Additional equipment is available from other Sexton sites as we pool equipment to support the total company needs. All of the listed equipment therefore will be assigned to the site, but may be considered available for other sites on a temporary basis.

NUMBER	DESCRIPTION	SIZE OR IDENT.	REMARKS
1	Track Dozer	D-8	
1	Tractor Scraper	D-8 w/scraper	
1	Track Loader	977	
1	Water Truck		
1	Tractor w/Sweeper		
1	Pick-up Truck	½ ton	

44. The site completion and monitary program will be in accordance with E.P.A. guidelines for site closure and maintenance.

45. Upon completion of the site known as Project I-57 a statement pursuant to its previous use will be filed with the County Recorder, pursuant to the requirements of the Environmental Protection Agency, State of Illinois.